

STATE OF MISSOURI  
**DEPARTMENT OF NATURAL RESOURCES**  
MISSOURI CLEAN WATER COMMISSION



## MISSOURI STATE OPERATING PERMIT

In compliance with the Missouri Clean Water Law, (Chapter 644 R.S. Mo. as amended, hereinafter, the Law), and the Federal Water Pollution Control Act (Public Law 92-500, 92<sup>nd</sup> Congress) as amended,

Permit No.: MO-0116254

Owner: Show-Me Landfill, LLC  
Address: 230 Southeast 421, Warrensburg, MO 64093

Operating Authority: Same as above  
Address: Same as above

Facility Name: Show-Me Regional Landfill  
Address: 230 Southeast 421, Warrensburg, MO 64093

Legal Description: NE  $\frac{1}{4}$ , SE  $\frac{1}{4}$ , Sec. 4, T45N, R25W, Johnson County  
(See page 2)

Receiving Stream & Basin: Unknown tributary to East Bear Creek (U)

First Classified Stream and ID: East Bear Creek (C)(00934)  
USGS Basin & Sub-watershed No.: (10300104-050001)

is authorized to discharge from the facility described herein, in accordance with the effluent limitations and monitoring requirements as set forth herein:

### FACILITY DESCRIPTION

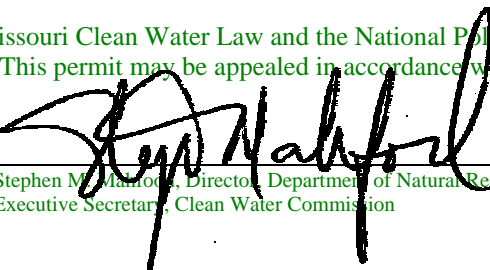
All Outfalls - Landfill - SIC #4953

Stormwater. Actual flows are dependent upon precipitation.

This permit authorizes only wastewater discharges under the Missouri Clean Water Law and the National Pollutant Discharge Elimination System; it does not apply to other regulated areas. This permit may be appealed in accordance with Section 644.051.6 of the Law.

April 5, 2002                      March 7, 2003  
Effective Date                      Modification Date

April 4, 2007  
Expiration Date  
MO 780-0041 (10-93)

  
Stephen M. Mahood, Director, Department of Natural Resources  
Executive Secretary, Clean Water Commission

James R. Macy, Director, Kansas City Regional Director

FACILITY DESCRIPTION (CONTINUED)

Outfall #001

Terminated; Will discharge through and be monitored by outfall #005

Outfall #002

NE  $\frac{1}{4}$ , SE  $\frac{1}{4}$ , Sec. 4, T45N, R25W, Johnson County  
Design flow is 14.9 MGD.

Outfall #003

NE  $\frac{1}{4}$ , SE  $\frac{1}{4}$ , Sec. 4, T45N, R25W, Johnson County  
Design flow is 42.0 MGD.

Outfall #004

Terminated; Will discharge through and be monitored by outfall #003

Outfall #005

SW  $\frac{1}{4}$ , NE  $\frac{1}{4}$ , Sec. 4, T45N, R25W, Johnson County

					PAGE NUMBER 3 of 8	
<b>A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS</b>					PERMIT NUMBER MO-0116254	
The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective upon issuance and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:						
OUTFALL NUMBER AND EFFLUENT PARAMETER(S)	UNITS	FINAL EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
<u>All Outfalls</u> (Note 1)						
Flow	MGD	*		*	once/quarter	instaneous estimate
Rainfall	inches	*		*	daily measurement	***
BTEX	mg/L	0.75		0.75	once/quarter**	grab
Biochemical Oxygen Demand <sub>5</sub>	mg/L	60		45	once/quarter**	grab
Chemical Oxygen Demand	mg/L	120		90	once/quarter**	grab
Total Suspended Solids	mg/L	80		60	once/quarter**	grab
Settleable Solids	mL/L/hr	1.5		1.0	once/quarter**	grab
Total Dissolved Solids	mg/L	*		*	once/quarter**	grab
Conductivity (Specific Conductance)	micromhos/ cm 25°C	*		*	once/quarter**	grab
Chloride Plus Sulfates	mg/L	1000		*	once/quarter**	grab
Iron, Total Recoverable	mg/L	*		*	once/quarter**	grab
pH - Unit	SU	****		****	once/quarter**	grab
(continued on next page)						
MONITORING REPORTS SHALL BE SUBMITTED <u>QUARTERLY</u> ; THE FIRST REPORT IS DUE <u>May 28, 2003</u> . THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.						
<b>B. STANDARD CONDITIONS</b>						
IN ADDITION TO SPECIFIED CONDITIONS STATED HEREIN, THIS PERMIT IS SUBJECT TO THE ATTACHED <u>Parts I</u> STANDARD CONDITIONS DATED <u>October 1, 1980 and August 15, 1994</u> , AND HEREBY INCORPORATED AS THOUGH FULLY SET FORTH HEREIN.						

					PAGE NUMBER 4 of 8	
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<u>All Outfalls</u> (continued)						
Ammonia as N	mg/L	*****		*****	once/year*****	grab
Calcium	mg/L	*		*	once/year*****	grab
Fluoride	ug/L	*		*	once/year*****	grab
Total Hardness	ug/L	*		*	once/year*****	grab
Barium, Total Recoverable	ug/L	*		*	once/year*****	grab
Boron, Total Recoverable	ug/L	*		*	once/year*****	grab
Cadium, Total Recoverable	ug/L	*		*	once/year*****	grab
Chromium, Total Recoverable	ug/L	*		*	once/year*****	grab
Cobalt, Total Recoverable	ug/L	*		*	once/year*****	grab
Copper, Total Recoverable	ug/L	*		*	once/year*****	grab
Sodium, Total Recoverable	ug/L	*		*	once/year*****	grab
Mercury, Total Recoverable	ug/L	*		*	once/year*****	grab
Arsenic, Total Recoverable	ug/L	*		*	once/year*****	grab
Lead, Total Recoverable	ug/L	*		*	once/year*****	grab
Selenium, Total Recoverable	ug/L	*		*	once/year*****	grab
Silver, Total Recoverable	ug/L	*		*	once/year*****	grab
Manganese, Total Recoverable	ug/L	*		*	once/year*****	grab
Magnesium, Total Recoverable	ug/L	*		*	once/year*****	grab
Zinc, Total Recoverable	ug/L	*		*	once/year*****	grab
(continued on next page)						
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<u>All Outfalls</u> (continued)						
Nitrate and Nitrite as N	mg/L	*		*	once/year*****	grab
Phosphorus, Total Recoverable	mg/L	*		*	once/year*****	grab
Antimony, Total Recoverable	ug/L	*		*	once/year*****	grab
Beryllium, Total Recoverable	ug/L	*		*	once/year*****	grab
Nickel, Total Recoverable	ug/L	*		*	once/year*****	grab
Thallium, Total Recoverable	ug/L	*		*	once/year*****	grab
Vanadium, Total Recoverable	ug/L	*		*	once/year*****	grab
Sulfate	mg/L	*		*	once/year*****	grab
Total Organic Carbon	mg/L	*		*	once/year*****	grab
Oil and Grease	mg/L	15		10	once/year*****	grab
(continued on next page)						
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A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

- \* Monitoring requirement only.
- \*\* Once per quarter in the months of February, May, August, and November.
- \*\*\* Grab samples shall be collected during a rainfall event, when there is runoff from the landfill site. The sample shall be collected no later than one hour after runoff begins.
- \*\*\*\* pH is measured in pH units and is not to be averaged. The pH is limited to the range of 6.0-9.0 pH units.
- \*\*\*\*\* The discharge shall not exceed the appropriate values in Table B 10 CSR 20, 7.031.
- \*\*\*\*\* Samples to be taken in May.

Note 1. - The first quarterly report due date for this revised permit is based on a complete calendar quarter monitoring period. Monitoring shall be reported once per quarter for the entire life of the permit. The permittee is responsible for reporting for the preceding calendar quarter under the previous permit.

C. SPECIAL CONDITIONS

1. Report as no-discharge when a discharge does not occur during the report period.
2. All design and operating specifications and all Solid Waste Management Program approval conditions pertaining to water quality are hereby made a part of this permit and shall apply throughout the life of this permit without regard to other conditions, permits, occurrences, etc.
3. General Criteria. The following water quality criteria shall be applicable to all waters of the state at all times including mixing zones. No water contaminant, by itself or in combination with other substances, shall prevent the waters of the state from meeting the following conditions:
  - (a) Waters shall be free from substances in sufficient amounts to cause the formation of putrescent, unsightly or harmful bottom deposits or prevent full maintenance of beneficial uses;
  - (b) Waters shall be free from oil, scum and floating debris in sufficient amounts to be unsightly or prevent full maintenance of beneficial uses;
  - (c) Waters shall be free from substances in sufficient amounts to cause unsightly color or turbidity, offensive odor or prevent full maintenance of beneficial uses;
  - (d) Waters shall be free from substances or conditions in sufficient amounts to result in toxicity to human, animal or aquatic life;
  - (e) There shall be no significant human health hazard from incidental contact with the water;
  - (f) There shall be no acute toxicity to livestock or wildlife watering;
  - (g) Waters shall be free from physical, chemical or hydrologic changes that would impair the natural biological community;
  - (h) Waters shall be free from used tires, car bodies, appliances, demolition debris, used vehicles or equipment and solid waste as defined in Missouri's Solid Waste Law, section 260.200, RSMo, except as the use of such materials is specifically permitted pursuant to section 260.200-260.247.

C. SPECIAL CONDITIONS (continued)

4. This permit may be modified, or alternatively revoked and reissued, to:
  - (a) Comply with any applicable effluent standard or limitation issued or approved under Sections 301(b)(2)(C), and (D), 304(b)(2) and 307(a)(2) of the Clean Water Act, if the effluent standard or limitation so issued or approved:
    - (1) Contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
    - (2) Controls any pollutant not limited in the permit.
  - (b) Incorporate new or modified effluent limitations or other conditions, if the result of a wasteload allocation study, toxicity test, or other information indicates changes are necessary to ensure compliance with Missouri's Water Quality Standards.
  - (c) Incorporate new or modified effluent limitations or other conditions if, as the result of a watershed analysis, a Total Maximum Daily Load (TMDL) limitation is developed for the receiving waters which are currently included in Missouri's list of waters of the state not fully achieving the state's water quality standards, also called the 303(d) list.

The permit as modified or reissued under this paragraph shall also contain any other requirements of the Act then applicable.

6. Changes in Discharges of Toxic Substances

The permittee shall notify the Director as soon as it knows or has reason to believe:

- (a) That any activity has occurred or will occur which would result in the discharge of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels:"
  - (1) One hundred micrograms per liter (100 ug/L);
  - (2) Two hundred micrograms per liter (200 ug/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 ug/L) for 2,5 dinitrophenol and for 2-methyl-4, 6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;
  - (3) Five (5) times the maximum concentration value reported for the pollutant in the permit application;
  - (4) The level established in Part A of the permit by the Director.
- (b) That they have begun or expect to begin to use or manufacture as an intermediate or final product or by-product any toxic pollutant which was not reported in the permit application.

7. All outfalls must be clearly marked in the field.

8. This permit does not allow the discharge of storm water that has contacted the open face of the landfill. This permit does not allow the discharge of untreated leachate. All leachate shall be handled in accordance with the Solid Waste Disposal Area Operating Permit, Report of Approval Plans and Specifications (with conditions).

9. An employee of the facility shall be able and qualified to obtain stormwater samples during the rainfall event.

11. All effluent from the leachate pond shall be either:

- (1) Hauled to a POTW or;
- (2) Land applied to areas of the landfill in accordance with the permit under the Solid Waste Law and regulations.

C. SPECIAL CONDITIONS (continued)

10. All activities performed to control erosion on the landfill site (seeding, mulching, terracing, etc.) shall be described and submitted along with the second quarter and fourth quarter Discharge Monitoring Reports. If no erosion controls are undertaken, indicate so on the reports.
11. If any of the sampling results from any of the outfalls show any violation of the permit discharge limitations, written notification shall be made to the Department of Natural Resources within five (5) days of notification of analytical results.  
Notification shall indicate the date (s) of sample collection, the analytical results, and permit number, and shall include a statement concerning the revisions or modifications in management practices that are being implemented to address the violation of the limitations that occurred.

After a violation has been reported, a sample of storm water runoff resulting from the next rainfall greater than 0.1 inches shall be collected at outfall (s) for which the violation occurred. Analytical results of this sample shall be submitted in writing to the Department of Natural Resources (this paragraph supercedes Part I, Section B: e. A. Noncompliance Notification).